

ABSTRACT OF THE DISCLOSURE

A high precision power resistor having the improved property of reduced resistance change due to power is disclosed. The resistor includes a substrate having first and second flat surfaces and having a shape and a composition; a resistive foil having a low TCR of
5 about 0.1 to about 1 ppm/°C and a thickness of about 0.03 mils to about 0.7 mils cemented to one of the flat surfaces with a cement, the resistive foil having a pattern to produce a desired resistance value, the substrate having a modulus of elasticity of about 10×10^6 psi to about 100×10^6 psi and a thickness of about 0.5 mils to about 200 mils, the resistive foil, pattern, type and thickness of cement, and substrate being selected to provide a cumulative
10 effect of reduction of resistance change due to power. The present invention also provides for a method of producing a high precision power resistor.